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CLAIMS

- 1. A multifunction probe for aircraft, having a mobile vane (1) intended to align with the axis (8) of an air flow around the probe, the mobile vane (1) comprising first pressure pickup means (20, 21) for 5 measuring the total pressure (Pt) of the flow, second pressure pickup means (22, 23) for measuring the static pressure (Ps) of the flow, characterized in that the mobile vane (1) has a profile whose flexure $(\lambda 1, \lambda 2)$ is variable, in that the flexure has a first value $(\lambda 1)$ 10 over a first part (26, 28) of the profile of the vane (1), in that the flexure has a second constant value $(\lambda 2)$ over a second part (27, 29) of the profile of the vane in the vicinity of the second pickup means (22, 15 23) for pressure (Ps), and in that the first value ($\lambda 1$) is less than the second value ($\lambda 2$).
 - 2. The multifunction probe as claimed in claim 1, characterized in that the flexure has a constant value ($\lambda 2$) upstream of the second pickup means (22, 23) for pressure (Ps).
 - 3. The multifunction probe as claimed in one of the preceding claims, characterized in that it includes third pressure pickup means (24, 25), which are intended to measure the incidence (α) of the mobile vane (1) with respect to the air flow, and in that the flexure has a constant value (λ 1) upstream of the third pickup means (24, 25) for pressure (α).
- 4. The multifunction probe as claimed in one of the preceding claims, characterized in that it is arranged on the skin (6) of the aircraft, in that the first pickup means (20, 21) for pressure (Pt) are located outside a boundary layer developed in the flow in the vicinity of the skin (6) of the aircraft.
- 5. The multifunction probe as claimed in one of the preceding claims, characterized in that it is arranged on the skin (6) of the aircraft, and in that the first part (26) of the profile is closer to the skin (6) of the aircraft than the second part (27) of the profile.



6. The multifunction probe as claimed in one of the preceding claims, characterized in that the second flexure value (λ 2) is defined so that a value (Kp) of the pressure coefficient of the second pickup means (22, 23) for pressure (Ps) is substantially zero for a given velocity of the air flow.